Mori Seiki Memo 0.00 Mori Seiki CNC Lathe Large 1-Fill tube with sand & install plugs DT8531 on both ends as per Folio FA248 2-Turn first side as per Folio FA248 3-Blend transition lines only, **do not sand whole tube**: FOLIO REV: DWG REV: *Use mill bastard file, brush file repeatedly with file card. *Do not use sandpaper coarser than 320 grit. 110 QC1- Inspect dimensions to dimension sheet 0.00 *110* QC1- Memo 0.00	Work Order ID 88981 August-14-12 7:34:22 AM		*88.9	181*			Page 1
Approvals: Process Plan: MLS Date: 17 Tooling: Date: Stop *NR7* Sequence ID/ Work Center ID Description Set Up/ 5.8 Tool ID Tool # Plan Accept Reject Number Stamp Draw Nbr Revision Nbr D407-667-245 Rev F 100 Mori Seiki Memo 0.00 Mori Seiki CNC Lathe Large 1-Fill tube with sand & install plugs DT8531 on both ends as per Folio FA248 2-Turn first side as per Folio FA248 3-Blend transition lines only, **do not sand whole tube**: FOLIO REV: MFDWG REV: 105 million sand per Folio FA248 110 QC1- Inspect dimensions to dimension sheet 0.00 Memo 0.00 **110* QC1- Inspect dimensions to dimension sheet 0.00 Memo 0.00	Revision ID: Item Name: Crosstube Turning Start Date: 14/08/2012 Start Pate: 28/08/2012 Required Date: 28/08/2012 Ref	Detail art Qty: 1.00 *1	*	Cust Item 1D:)1 / 00*		1421
Work Center ID Description Run Hours Code Qty Qty Number Stamp D407-667-245 Rev F. D407-667-245 Rev F. Rev F. MORI SEIKI CNC LATHE LARGE Mori Seiki Memo 0.00 Mori Seiki CNC Lathe Large 1-Fill tube with sand & install plugs D78531 on both ends as per Folio FA248 2-Turn first side as per Folio FA248 3-Blend transition lines only, **do not sand whole tube**: FOLIO REV: DWG REV: *Use mill bastard ille, brush file repeatedly with file card. *Do not use sandpaper coarser than 320 grit. 110 QC1- Inspect dimensions to dimension sheet QC Memo 0.00 Memo 0.00		j	, ,				"NR1"
Draw Nbr Revision Nbr D407-667-245 Rev F 100 0.00 *100 * MORI SEIKI CNC LATHE LARGE Mori Seiki Memo 0.00 Mori Seiki CNC Lathe Large 1-Fill tube with sand & install plugs DT8531 on both ends as per Folio FA248 2-Turn first side as per Folio FA248 3-Blend transition lines only, **do not sand whole tube**: FOLIO REV: How with sand tile, brush file repeatedly with file card. *Do not use sandpaper coarser than 320 grit. 110 QC1- Inspect dimensions to dimension sheet 0.00 *110 Memo 0.00	•			Tool ID Tool			
MORI SEIKI CNC LATHE LARGE Mori Seiki Memo 0.00 Mori Seiki CNC Lathe Large 1-Fill tube with sand & install plugs DT8531 on both ends as per Folio FA248 2-Turn first side as per Folio FA248 3-Blend transition lines only, **do not sand whole tube**: FOLIO REV: DWG REV: *Use mill bastard file, brush file repeatedly with file card. *Do not use sandpaper coarser than 320 grit. 110 QC1- Inspect dimensions to dimension sheet 0.00 *110* Memo 0.00	Draw Nbr Revision	ı Nbr					
MORI SEIKI CNC LATHE LARGE Memo 0.00 Mori Seiki CNC Lathe Large 1-Fill tube with sand & install plugs DT8531 on both ends as per Folio FA248 2-Turn first side as per Folio FA248 3-Blend transition lines only, **do not sand whole tube**: FOLIO REV:	D407-667-245 Rev F						
3-Blend transition lines only, **do not sand whole tube**: FOLIO REV:	*100* Mori Seiki	Мето	0.00	er Folio FA248		1 \$	Kc 12-8-2
110 QC Memo 0.00 *2110*		3-Blend transition lines only, *** FOLIO REV: DWG REV: *Use mill bastard file, brush file	do not sand whole tube**: repeatedly with file card.				
	110				1	Ø	/ KC 12-8-2E

NCR: (Yes)/ N	۷o
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WORK ORDER NON-CONFORMANCE / UPDATE

DQA: Date:	1409	120	_
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	\leq								QA Closed:	Date:	(2)910			
Work Orde	er: 88	798	1		DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part N	vo. <u>D407</u> -	•		TRN	Rework Scrap Use-as-is Work Order Update	1 1	Machining noforming	Crosstube T Small Fab Finishing Composite	Fab Prod. Eng. Coor. Quality ning Rec/Store/Packaging Other					
Root				Descri	otion of work order update	Initial	Action		Sign &					
Cause	Date	Step	Qty	C	or Non-conformance	Chief Eng	Descripti		Date	Verification	QC Inspector			
Doc/Data Equip/Tooling Operator Material Setup	12/2/21	140		\$2.4 after	188 O.D. CUFF Maching	12/4/n	Acceptable	,	12/0/TL	16 16 17/07/18	0ÅS 16, 12/08/15			
Other				ا أ		,			17-7-		121021(2			
Process														
Supplier														
Training											·			
Unapproved		<u>.</u>	<u> </u>											
					· · · · · · · · · · · · · · · · · · ·	AULT CATE	GORY		····					
Landi	ng Gear			_	General	гэ .					7			
	Bending				Bend	Grain			Ovalized		Pressure/Forced			
	Centre N Cracks	ot Conce	ntric to	0/5	BOM/Route Broken/Damaged	Hardwa		-	Over/Under Part Incorred		Temperature/Cure Weld			
	Crushed/	'Crimnad		-	Burrs	H	ion Incomplete tions Incomplete/Uncl		Part Lost/Mis		Wrong Stock Pulled			
	Cuffs	Chinpeu		<u> </u>	Contamination	\blacksquare	enance	<u> </u>	Part Moved	22118	Wrong Stock Fulled			
	Cuffs Heat Treat				Countersink	Mislabe		<u> </u>	Positioned W	/rong				
	Inspection Strip in Tube				Cut Too Short	Misread	d	<u> </u>	Power Loss/S		Other			
	Ripples in Bend				Drill Holes	Offset			`	nd Stright				
Torque Waves in Extrusion					Drawing	Out of Calibration			, , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·				
	Turning S	equence			Finish	Out of Sequence								
	Wave/Tw	ist in Tul	oe .		Folio	Outside Dimensions								

0.00

Memo

QC

Quality Control

M91 C 12/08/21

												DQA:	Date	•
NCR:	es/	/ No					WORK ORDER NON-C	CON	VFORM	MANCE / UP	DATE			`
							· · · · · · · · · · · · · · · · · · ·					QA Closed:	Date	:
Nork Orde	er:				j		DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
	-						Rework	1		Engineering				
Part N	lo.	· · · · · · · · · · · · · · · · · · ·		Scrap		ı	Skid-tube Machining	Crosstube Small Fab	Pro	d. Eng. Coor.	Quality			
	•				•		Use-as-is		Thern	noforming	Finishing	Rec/Stor	e/Packaging	Other
NCR N	R No Work Order Update				Work Order Update]		Large Fab	Composite		Supplier			
Root	Root Description of work order upo								nitial	Ac	ction	Sign &		
Cause		Date	Step	Qty		0	r Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
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napproved	\dashv													
паррточео				<u> </u>	<u> </u>		F	AUI	T CATE	GORY		1	i	1
Landii	ng G	iear		-			General						· · · · · · · · · · · · · · · · · · ·	
		Bending			Γ		Bend		Grain			Ovalized		Pressure/Forced
	ヿ	Centre No	t Concer	ntric to	o/s		BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
		Cracks			ſ		Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct	Weld
ĺ		Crushed/0	Crimped.				Burrs		Instruct	ions Incomplete,	/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
[Cuffs					Contamination		Mainte	nance		Part Moved	_	_
		Heat Trea	t				Countersink		Mislabe	led		Positioned V	Vrong _	<u>_</u>
ď	2	Inspection	Strip in	Tube			Cut Too Short		Misread	i		Power Loss/	Surge	Other
	Ripples in Bend Drill Holes				Drill Holes		Offset			\;				
	Torque Waves in Extrusion Drawing					Drawing	Out of Calibration							
	Turning Sequence Finish							Out of Sequence						
		Wave/Twist in Tube Folio					Folio		Outside Dimensions					v

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Orde		981		*889	281*				-	. =0.		Page 3
Item ID: Revision ID: Item Name:	D407-667-20			Accept	*N900	040	100	*	Setup	Start Stop	*NS	\$1* \$2*
Start Date: Required Date: Reference:	14/08/2012 28/08/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item II Customer:	D:					, • •	
Approvals:	Process Pla	in:	Date:	Tooling: SPC (Y/N):		te:		1	Run	Start Stop	*NF	R1*
Sequence ID/ Work Center II 140 *140* QC Quality Control	D	Operation Description QC8- Inspect parts - seco	and check	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code (O3	Accept Qty	Re Qt	y .		Insp. Stamp
145 *145* Crosstubes Crosstubes		Memo Grind off ci	rcumferential machining	0.00 0.00 marks longitudinally.				Za	4 —	12-	8- 2	24
150				0.00								

150 HandFXtube

Hand Finishing Crosstubes

Memo

0.00

1- PRESSURE WASH X-TUBE INSIDE AND OUT

2- ACID ETCH X-TUBE INSIDE AND OUT. USE RED SCOTCH BRITE

DC 12/09/17

NCR:	Yes	/ No				WORK ORDER NON-	100	NFORN	MANCE / UPI	DATE	QA Closed:	Date:				
Work Ord	er:				· · · · · · · · · · · · · · · · · · ·	DISPOSITION	-				NST DEPARTMENT/PROCESS					
Part I					· · · · · · ·	Rework Skid-tu Scrap Machini Use-as-is Thermoformi Work Order Update Large F				Crosstube Small Fab Finishing Composite	Small Fab Prod. Eng. Coor. Quality Finishing Rec/Store/Packaging Othe					
Root					Descri	ption of work order update		Initial	Act	ion	Sign &					
Cause		Date	Step	Qty		or Non-conformance	Ch	ief Eng	Descr	ription	Date	Verification	QC Inspector			
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved	/Tooling ator rial sss ier ing				Ŷ.											
							AUL	T CATE	GORY	٠.						
Landi		1				General	_	1			7	_	7			
	Bending Centre Not Concentric to O/S Cracks					Bend BOM/Route Broken/Damaged		Grain Hardwa Inspecti	re on Incomplete	_	Ovalized Over/Under Part Incorre		Pressure/Forced Temperature/Cure Weld			
	Crushed/Crimped.					Burrs		1 '	ions Incomplete/l	Jnclear	Part Lost/Mi)	Wrong Stock Pulled			
	Cuffs					Contamination		Mainte	nance		Part Moved		_			
	Heat Treat					Countersink		Mislabe	led		Positioned V	Vrong	-			
		Inspection	n Strip in	Tube		Cut Too Short	L	Misread			Power Loss/	Surge	Other			
	Ripples in Bend					Drill Holes		Offset								
*	Torque Waves in Extrusion				n 🗍	Drawing	Out of Calibration									

Out of Sequence

Outside Dimensions

DQA:

Date: _

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

0.00

Memo

180

Quality Control

1120418

									DQA:	Date:	
NCR: Y	es / No				WORK ORDER NON-C	ONFOR	MANCE / UP	DATE	QA Closed:	Date:	
Work Orde	er:				DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
	Part No. NCR No. Root Cause Date Step Qty /Data p/Tooling rator erial				Rework Scrap Use-as-is Work Order Update		Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	ļ	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descrip	otion of work order update	Initial	Ac	tion	Sign &		
Cause	Date	Step	Qty	o	r Non-conformance	Chief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling		1									
Operator											
Material [
Setup											
Other		1									

Landing	Gear	General						
	Bending	Bend		Grain		Ovalized		Pressure/Forced
	Centre Not Concentric to O/S	BOM/Route		Hardware	Г	Over/Under tolerance	Г	Temperature/Cure
	Cracks	Broken/Damaged		Inspection Incomplete	Г	Part Incorrect		Weld
	Crushed/Crimped.	Burrs		Instructions Incomplete/Unclear		Part Lost/Missing		Wrong Stock Pulled
	Cuffs	Contamination		Maintenance		Part Moved		•
	Heat Treat	Countersink		Mislabeled		Positioned Wrong		٠.
	Inspection Strip in Tube	Cut Too Short	Г	Misread		Power Loss/Surge		Other
	Ripples in Bend	Drill Holes		Offset		•		
	Torque Waves in Extrusion	Drawing		Out of Calibration				
	Turning Sequence	Finish		Out of Sequence				
	Wave/Twist in Tube	Folio		Outside Dimensions				WAS

FAULT CATEGORY

Process
Supplier
Training
Unapproved

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Picklist Print

August-14-12 7:34:26 AM

Work Order ID: 88981

Parent Item Name: Crosstube Turning Detail

88981

Parent Item:

D407-667-205TRN

D407-667-205TRN

Start Date: 14/08/2012

Required Date: 28/08/2012

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:A 08-03-06 new issue DD verified by:ec

IPP Rev B 08.04.02 Removed polish EC verified by: DD IPP Rev:C 08-08-19 revE as per dwg DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6011-115		Manufactured	No			120	Each	37.0000	1	1	,		
D6011 1	15								**				

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Crosstube Material

Location	Loc Oty	Loc Code		
FG	22			
69802	22		- I morely	12/08/21
LG C	15			
65180	1		<u> </u>	
67798	14			

												DQA:	Date	e: _		
NCR:	Yes	/ No					WORK ORDER NON-C	10:	ONFORMANCE / UPDATE QA Closed: Date:							
											· · · · · · · · · · · · · · · · · · ·			e:		
Vork Ord	er:						DISPOSITION				AGAINST DE	PARTMENT,	/PROCESS			
Part I	No.				3.		Rework Scrap		ſ	Skid-tube Vachining	Crosstube Small Fab	4	Water Jet d. Eng. Coor.		Engineering Quality	
NCR I	No.		. = .				Use-as-is Work Order Update			noforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier		Other	
Root					Des	crip	otion of work order update		nitial	Act	tion	Sign &		Т		
Cause		Date	Step	Qty		, c	r Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification		QC Inspector	
oc/Data puip/Tooling perator laterial etup ther occess upplier raining napproved			Date Step Qty or Non-conformance							2 ⊕						
							FA	AUL	T CATE	GORY						
Landi	ng G	iear					General					_				
		Cracks Crushed/C Cuffs Heat Trea	Centre Not Concentric to O/S Cracks Broken/Damaged Burrs Cuffs Contamination Countersink Cut Too Short						1	on Incomplete ions Incomplete/I nance led	Unclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct issing Vrong		Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other	
		Ripples in Bend Drill Holes							Offset		L	<u> </u>	- L			
:		Torque Waves in Extrusion Drawing Turning Sequence Finish							i	Calibration						

Outside Dimensions

Wave/Twist in Tube

Folio

DART AEROSPACE LTD	Work Order:	88981	
Description: Crosstube Assembly	Part Number:	D407-667-245	
Inspection Dwg: D407-667-245 Rev: F		Page 1 of 2	

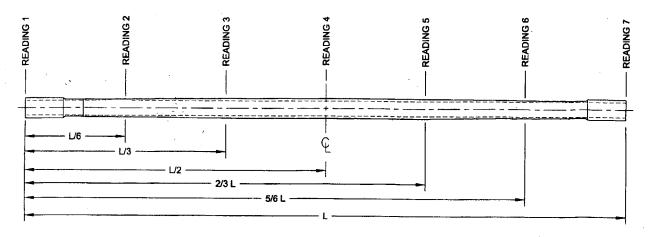
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FIRST ARTICLE INSPECTION CHECKLIST

Ir	spection Sheet	T -1	Actual	1		Method of		
Dr	awing Dimension	Tolerance	Dimension	Accept	Reject	Inspection	Comments	
	2.490	+0.005/-0.000	2.291			vern	CNC-04	
	1.832	+0.005/-0.000	1.832			1		
	1.838	+0.005/-0.000	1-843					
	1.892	+0.005/-0.000	1.897	-	A CONTRACTOR OF THE PARTY OF TH	,		
	2.052	+0.005/-0.000	2-055				- Lis.	
	2.206	+0.005/-0.000	2-211		-		*	
A	2.521	+0.005/-0.000	2526	-			•	
SIDE	2.633	+0.005/-0.000	2.636	9		J		
0,	4.10	+/-0.030	4.10			vern	CVC-08	
	4.978	+/-0.030	4.978	//	ł ·	11		
!	2.040	+0.000/-0.010	2.037			10		
	0.125	+/-0.010	.125	1		11		
	R0.063	+/-0.010	£.063.			P.G.		
	R0.500	+/-0.0,10	\$ 560	ILLEY .		10		
	2.490	+0.005/-0.000	2:491		8-20	vern	CNC-OX	
	1.832	+0.005/-0.000	11836	100 × 100	3.			
	1.838	+0.005/-0.000%	47		ا الله الله الله الله الله الله الله ال	i,		
	1.892	+0.005/-0:000	1.8.97	がいる	415	.		
	2.052	+0.005/-0.000 /	2.057	Mary the Party				
	2.206	+0.005/-0.000	2.210	/-/	(A)			
В	2.521	+0.005/-0.000	2:526					
SIDE	2.633	+0.005/-0.000	2,636			Ų		
S	4.10	+/-0.030	4.10	./		viern	CVC-08	
	4.978	+/-0.030	4-974			t c		
	2.040	+0.000/-0.010	3052	035	7.	11		
	0.125	+/-0.010	, 125		<u> </u>	-4,1		
	R0.063	+/-0.010	.063		•	vern	cn 6-08	
	R0.500	+/-0.010	.500			((
	112.91	+/-0.020	112.91			tare	GG-22	

DART AEROSPACE LTD	Work Order:	88981
Description: Crosstube Assembly	Part Number:	D407-667-245
Inspection Dwg: D407-667-245 Rev: F		Page 2 of 2

WALL THICKNESS MEASUREMENT



	WALL	THICKNESS	Deviation			
Location	w1	w2	w3	w4	Δw (max-min)	TOLERANCE
READING 1 L= 0"	, 233	,222	.226	.225	.0/3	
READING 2	.237	.241	.224	.219	.022	
READING 3	,407	.401	. 384	. 362	-025	· ;
READING 4 L= S6	649	-659	.658	,644	.015	0.075"
READING 5 L= 36	-367	-466	.421	-376	.054	į
READING 6 L= 17	.212	.241	-247	-216	-035	7
READING 7	,224	.2/9	.223	.226	.067	

Calibration Result

Actual Block Thickness:
Sitescan 250 Measured Thickness:

Measured by: 9000, L

Date: 12/06/22

Audited by: Preliminary Approval: Date: 12-8-24

Date: 12-8-24

Rev	Date	Change	Revised by	Approved
Α	04.04.21	New Issue (P/O D407-667-205)	KJ/RF	
В	06.03.09	Dwg Rev updated	KJ/JLM	
~C	06.03.30	Tolerance revised for 4.978 dimension	KJ/JLM	
√D	07.02.19	Dwg Rev updated	KJ/JLM	
E	09.05.20	Dwg Rev updated	KJ .	01
F	12.06.04	Wall thickness form added	KJ KJ	W

I te m	QTY -245	PART NUMBER	DESCRIPTION
1	х	D407-667-245	CROSSTUBE ASSEMBLY (407 HIGH AFT)
2	1	D6011-115	CROSSTUBE
3	2	D2856-400-773	ABRASION STRIP
4	2	D2873-043	NUT PLATE
5	2	D2873-045	NUT PLATE
6	1	D2894-1	SUPPORT
7	2	D3190-1	CHAFING SHIELD
- 8	2	D3595-063-430	RUBBER CUSHION
9	14	MS20601AD4W8	RIVET (OR NAS9302B-4-8)
10	4	MS21920-22	CLAMP
11	2	MS21920-25	CLAMP (OR MS21920-24)
لــــا			
12	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947- 100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

D

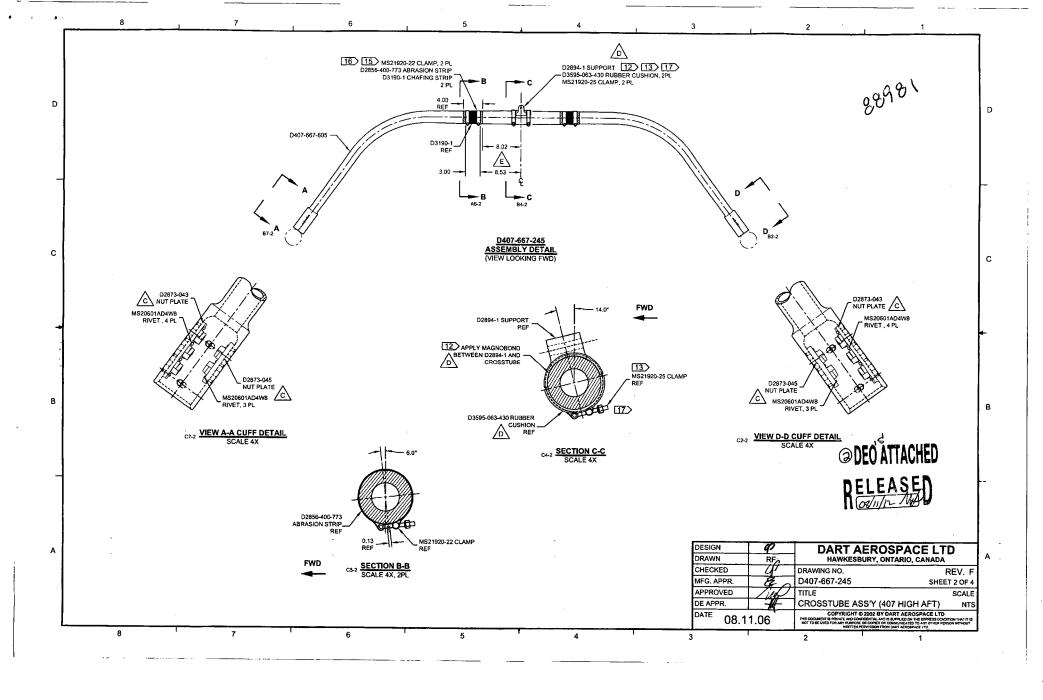
- 1) MATERIAL: MANUFACTURED FROM D6011-115
- FINISHED LENGTH = 112.91±0.020
- CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D407-667-245" AND BATCH NUMBER ON
- INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 27.7 lbs
- PART IS SYMMETRIC ABOUT CENTERLINE.
 RUN-OFF PART. BLEND OUT EDGE LONGITUDINALLY, TRANSITION SHOULD BE SMOOTH. 10) BEND PROGRESSIVELY WITH A MINIMUM OF 6 PASSES. MAXIMUM TUBE FLATTENING DUE TO
- BENDING IS 6% BASED ON O.D.
- 19. INSTALL D2894-1 CENTER SUPPORT USING A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO
- 13) INSTALL MS21920-25 CLAMPS WITH D3595-063-430 RUBBER CUSHIONS TO SECURE D2894-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE CROSSTUBE
- NOTE: MS21920-24 CLAMPS CAN BE USED TO ACCOMMODATE VARYING DIAMETERS.
- ENSURE THERE IS A MINIMUM OF 1.5 THREADS IN SAFETY ON THE NUTS.

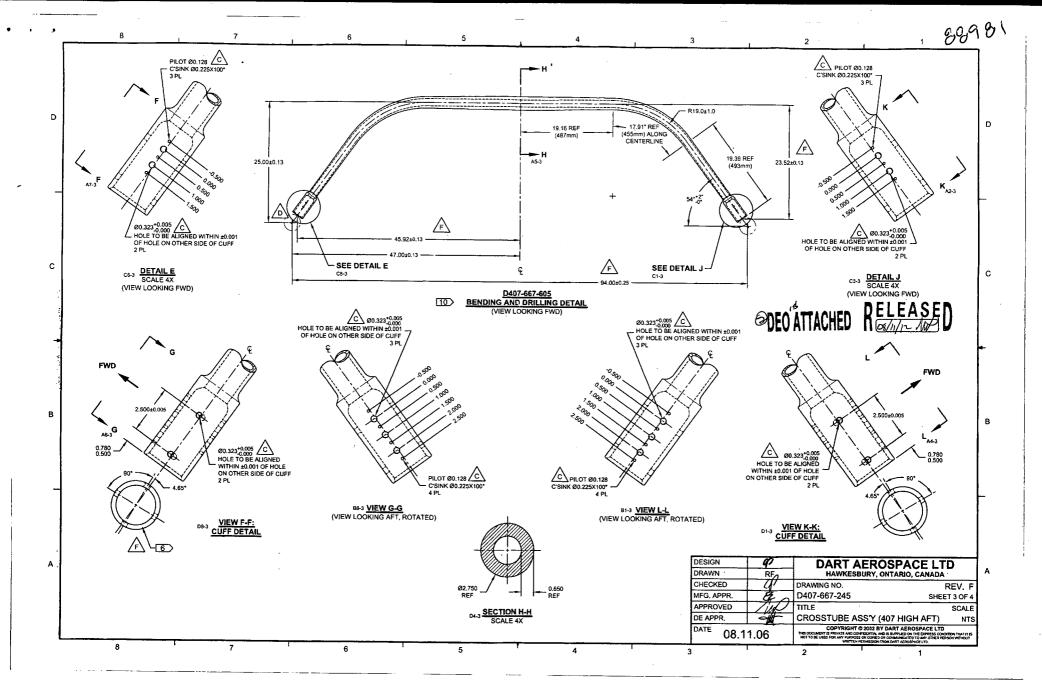
 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) INSTALL D2856-400-773 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE, PER QSI 035.
- 16) INSTALL D3190-1 CHAFING SHIELDS SO THAT OVERLAP IS ON BOTTOM SIDE OF CROSSTUBE OPPOSITE D2894-1 SUPPORT.
- 17) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

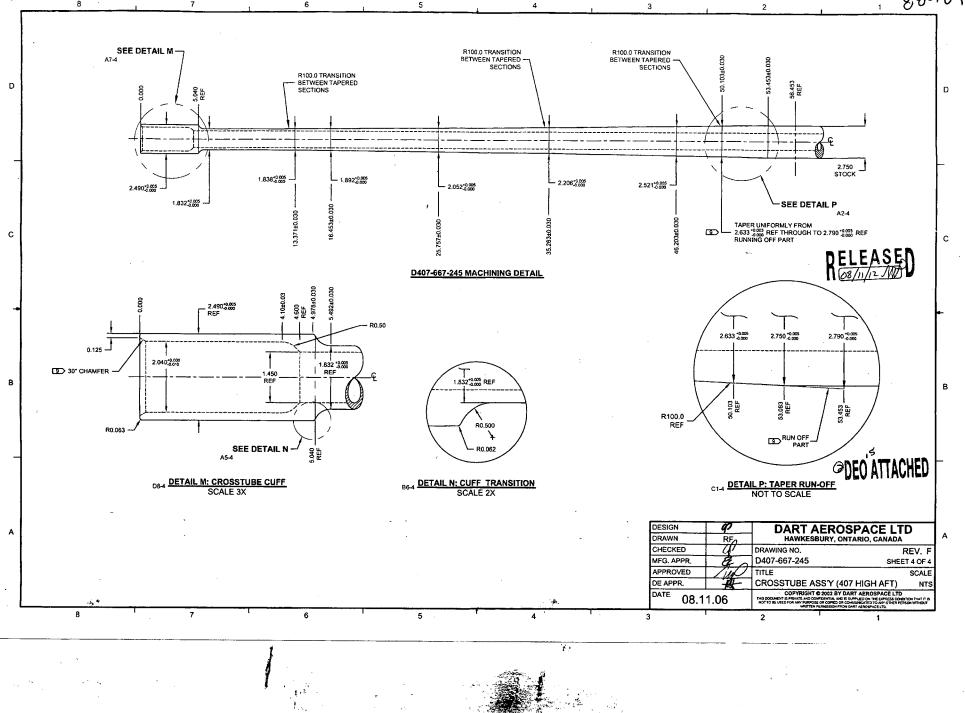
SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER MLJ NO. 88981 MLJ

F	REFORMAT NOTES TO NEW STANDARDS (ZN B8-1):	RF	08,11.06
	RELOCATED FLAG # 6 (ZN A8-3) PER NCR 210;		
	REMOVED REF. & ADD TOLERANCES (ZN C6-3, C4-3 & D2-3)		
E	8.02 AND 8.53 WERE 8.40 AND 8.90 (ZN D5-2); REORGANIZED VIEWS AND REFORMATED DRAWING TO CURRENT STANDARDS. REASONS: CLAMPS MOVED 0.375 TOWARD CL TO ELIMINATE INTERFERENCE WITH AIRCRAFT MOUNTS. REFERENCE: PAR#08-21 AND EC	мв	08.07.24
D	ADD VIEW FOR OEM SKID HOLES, ROTATE ORIENTATION OF CLAMPS SECTION F-F, REMOVE -851 ABRASION STRIP, ADD MAGNOBOND 6398, ADD CUSHION	PH	07.02.07
С	ADD HOLES AND NUT PLATES FOR COMPATIBILITY WITH BHT/AA SKIDTUBES	PH	05.07.26
В	ADD CHAFING SHIELD	CP	03.05.21
Α	NEW ISSUE	CP	02.05.13
REV.	DESCRIPTION	BY	DATE

DESIGN	P	DART AEROSPACE I	LTD				
DRAWN	RF,	HAWKESBURY, ONTARIO, CANADA					
CHECKED	Ar .	DRAWING NO.	REV. F				
MFG: APPR.	80	D407-667-245 si	HEET 1 OF 4				
APPROVED	111	TITLE	SCALE				
DE APPR.	74	CROSSTUBE ASS'Y (407 HIGH AFT	T) NTS				
DATE OR 1	1.06	COPYRIGHT © 2002 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND COMPORTING AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS					







DRAWING N	NO. TITLE		DCV. C	DADTAL	POCRACEL	TD			0,10,
	· · · · · · · · · · · · · · · · · · ·	. 	REV. F		EROSPACE L		NO.	SHEET NO.	SCALE
D407-667	/-245 CROS	STUBE ASSY (4	07 HIGH AFT)	ENGINE	ERING ORDE	ER D407-	667-245-F-1	SHEET 1 OF 2	NTS
DRAWN	<u>_</u>	CHECKED	q)	MFG. APPR.	E	APPROVED	160	DE APPR.	1
DATE	11.04.08	DATE	11.04.12	DATE	11.04.12	DATE	11.04.12	DATE 11-04-12	

PURPOSE:

REMOVED ABRASION STRIP IN FAVOR OF A THIN LAYER OF PROSEAL 890.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

IS:

Item	Qty -245	Part Number	Description
3	0	D2856-400-773	ABRASION STRIP

WAS:

3	2	D2856-400-773	ABRASION STRIP	

NOTES 2 AND 15, SHEET 1 ARE AMENDED AS FOLLOWS:

IS:

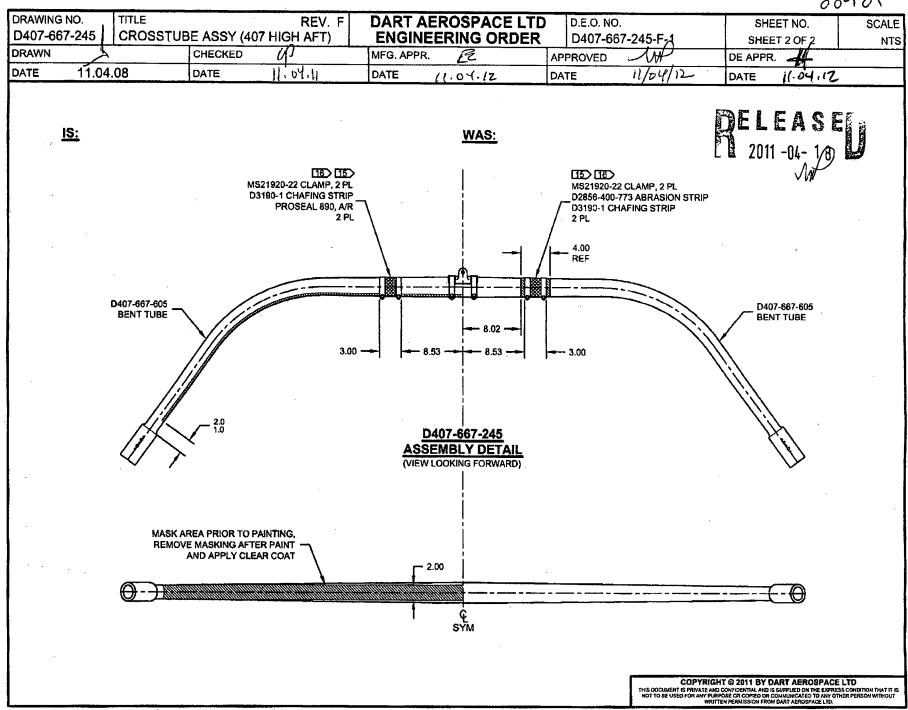
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND PAINT OUTSIDE PER DART QSI 005 4.2
REMOVE MASKING AND APPLY CLEAR COAT

15) APPLY A THIN COAT OF PROSEAL 890 ON INSIDE CONCAVE SURFACE OF D3190-1 CHAFING SHIELDS AND LET CURE PER MANUFACTURER'S INSTRUCTIONS. INSTALL PROSEALED D3190-1 CHAFING SHIELDS ONTO CROSSTUBE BY APPLYING A THIN COAT OF PROSEAL 890 ONTO CROSSTUBE. BE SURE TO ELIMINATE ANY AIR GAPS.

WAS:

- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2
- 15) INSTALL D2856-400-773 ABRASION STRIP WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.





DRAWING NO. D407-667-245	TITLE CROSSTUBE	ASS'Y (40	REV. F 7 HIGH AFT)		ROSPACE LTD RING ORDER	D.E.O. NO. D407-667-245-F-2	SHEET NO.	SCALE NTS
DRAWN 9	2	HECKED	ASS	MFG. APPR.	G	APPROVED W	DE APPR.	
DATE 11.09	.07	ATE /	1.09.19	DATE	11-09-19	DATE 11.09.19	DATE 11.09.19	

PURPOSE:

REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

CHANGE:

IS:

item	Qty -245	Part Number	Description
12	A/R	SCOTCH-WELD DP460	EPOXY ADHESIVE, 3M SCOTCH-WELD

WAS:

12	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 17, SHEET 1 IS AMENDED AS FOLLOWS:

19

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

WAS:

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



